0.00

0.00

120

QC

120

Quality Control

15- Crosstube Dimensional Check

Memo

7226	WORK ORDER CHANGES							
STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approvai QC Inspector		
						STEP PROCEDURE CHANGE By Date Qty Chief Eng /		

Part No: 1370-748-201 PAR #:	Fault Category:	NCR: Yes No DQA:	Date:
Resolution:	Disposition:	QA: N/C Closed:	Date:

NCR:		W	ORK OR	DER NON-CONFORMANC	E (NCR)			
DATE STEP		STED Description of NC		Corrective Action Section B		Verification	Annaval	Annessal
DAIL	SIEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
12.9.10	110	Twisting is over tolerance		MAXAWIST = 0 575 for				
12.9.10	110	Twist is over tolerance.	DAG 12/4/16	Cut high dim by 20,100"	MO 129-10	/2M 12-9-12	12/9/10	(DAS 16, 11/10/05
								·

Work Order ID 87226 Page 2 July-11-12 10:35:32 AM Item ID: D350-748-201 Accept *N900040100* Setup Start **Revision ID:** Stop Item Name: Crosstube Installation, High Aft **Start Date:** 7/10/12 Start Qty: 1.00 **Cust Item ID:** Required Date: 8/31/12 Req'd Qty: 1.00 **Customer:** Reference: Run Start Process Plan: Approvals: Date: **Tooling:** Date: Stop Date: SPC (Y/N): Date: Sequence ID/ Operation Set Up/ **Tool ID** Tool # Plan Accept Reject Reject Insp. Work Center ID Description Run Hours Code Qty Qty Number Stamp 125 0.00 *125* CA 15/08/31 1 HandFXtube 0.00 Memo Hand Finishing Crosstubes ***Stress relief*** P10:17796 Heat treat crosstube as per OSI010 4.3 Temp: Start time: Finish time: 127 C5- Inspect part completeness to step on W/O Memo

Quality Control

Dart Ae	rospace	e Ltd						•	1
W/O:			WOI	RK ORDER CHA	ANGES				, ,
DATE	STEP	PRO	PROCEDURE CHANGE			Ву	Date (Approval Chief Eng / Prod Mgr	Approval QC Inspector
		·							
		•							
Part No	•	PAR #:	Fault Catego	ory:	NCI	R: Yes	No DQA:	Date: _	
		esolution:							*
NCR:		\	WORK ORDE	R NON-CONFO	RMANCE	(NCR)		
DATE	CTED	Description of NC	C	orrective Action	Section B		Verificat	ion Approval	Approvel
DALE	STEP	Section A	Initial Chief Fran	Action Descript	ion	Sign &	Section	- 4- 1	Approval QC Inspector

NCR:	WORK ORDER NON-CONFORMANCE (NCR)							
DATE	OTED	Description of NC		Corrective Action Section B				Annua 1
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC Inspector
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				7.40°				
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Work Ord July-11-12 10:.		226		*872	26*					Page 4	
Item ID: Revision ID: Item Name:		tallation, High Aft	•	Accept	*N900		ነበ*	Setup Sta	IV	S1* S2*	
Start Date: Required Date: Reference:	7/10/12 : 8/31/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item II Customer:	D:					
Approvals:	Process Pla	an:	Date:	Tooling:	Da	ite:			art *NI	₹1*	
	QC:		Date:	SPC (Y/N):	Da	ite:		St	^{op} *NI	₹2*	
Sequence ID/ Work Center I	D	Operation Description Outsource process-Cadpl		Set Up/ Run Hours	Tool ID	Tool # Pla Coo		t Reject Qty	Reject Number	Insp. Stamp	
*150 *150* Outsource3 Outsource process	- Cad plate	Memo Issue P/O: Stress relief Magnetic Pa Cadium Plat Embrittle rel Possibe Supp	17909	0.00 E1444 Class 1, Type 2 romate Treat dustries					12-09-1	·	
*160 *160* Packaging Packaging		Receive & Inspect for Da Memo Ensure certif	mage & Mat'l Certs Ticate of conformity is atta	0.00 0.00 ched	†0			(Dust	9/5/27		
170 *170* QC Quality Control		QC5- Inspect part comple Memo	eteness to step on W/O	0.00 PAS (1110/05			/ 41	78/28 -	C ?to	

ucid widtinspect alterned cy c to w/o.

Parch. issue 7/0 to acuen 7/0'. 18028 az/2109/28 (da/p/30)

Dart Aerospace Ltd

W/O: 8	7226	WORK ORDER CHANGE						
DATE STEP		PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC inspector	
12/9/27	16	LOAD TEST TUBE to 3000 FOR IMMUTE	D/ 0.6	12/9/27		12/4/27	OAS)	
12/9/27	167	NOT tube (LIQUII) PENETRANT)				12/3/27	17/10/05	

Part No: 0370-748-201	PAR #: Fault Category:	1- Juse	NCR: Yes No	DQA:	Date: 12/10/15
Resolution:	Disposition:	^	QA: N/C Closed:	7 1, 1	

NCR: 12	-1903 1		Zink On	DER NON-CONFORMANCE * Corrective Action Section B	_ (14011)			
DATE	STEP	Description of NC Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Verification Section C	Approval Chief Eng	Approval QC inspector
12/10/02	140	X-tube has an insection on tube that causes to Fail/Wot Pass insection Forms About 90" Fam.colf.	A DAS	Pe Grans tube in Agen.	્રે <u>ક</u> ાશ્લ∣લ	P10: 18036	Dro de no	17/40/0
		Process	03 DAG	DIAHM PROPERTY WAS LAS NOTAL	10/2/10/ W/A.	2	Dio	17/10/01
							1 12 1	

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Work Ord July-11-12 10:		7226		*87226*							Page 5		
Item ID: Revision ID:	D350-748-			Accept	*N900	040	100)*	Setup		1 😘	S1*	
Item Name:	Crosstube In	nstallation, High Aft								Stop	*N	S2*	
Start Date: Required Date	7/10/12 8 /31/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:							
Reference:													
Approvals:	Process P	Plan:	Date:	Tooling:	Da	ate:			Run	Start Stop	*N	R1*	
	QC:		Date:	SPC (Y/N):	Da	ate:				ьюр	*N	R2*	
Sequence ID/ Work Center I 180 *180*	D _	Operation Description SprayPaint		Set Up/ Run Hours 0.00	Tool ID	Tool #	Plan Code	Accept Qty	t Rej Qty		Reject Number	Insp. Stamp	 d-10-0
SprayPaint		Memo		0.00								9-80	
Spray Painting			ide crosstube as per QSI 0 side of Tube as per Dart Q										•
190		QC14- Inspect Spray Pa	int	0.00						_			,
190				0.00				(<i>i</i>)		\mathcal{B}	/_	1.10.05	
QC Quality Control		Memo Then Wran	in plastic bag to protect fr					_					1
Quanty Control		i nen, wiap	in prastic dag to protect if	om seratenes									

200

200 Crosstubes

Crosstubes

Crosstubes

Memo

1-Install Ground wire Insert, then insert screw and washer

2-Install Abraision strips as per Dwg D350-748-241 & QSI 035.
3-Install supports Using Dt8876 as per Dwg D350-748-241, Torque to 60-80 IN-LBS

0.00

0.00

Dart Aerospace Ltd

Dair Aci	ospace	, Liu								
W/O:			W	ORK ORDER CHANG	ES					• •
DATE	STEP	PRO	OCEDURE CHA	NGE	Ву		Date	Qty	Approvai Chief Eng / Prod Mgr	Approval QC Inspector
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I.									؞	
Part No:PAI		PAR #:	Fault Cate	gory:	_ NCR: Y	es No	DQ.	4 :	Date: _	
	Resolution:									
NCR: 3	NCR: 31		WORK ORD	ER NON-CONFORMA	ANCE (N	CR)				
DATE	STEP	Description of NC Section A	Section A Initial Action Desc		Section B on Sign &		Verific Section		Approval Chief Eng	Approval QC Inspector
			Chief Eng	Chief Eng		ate				
										ç

Work Orde July-11-12 10:3		226		*872	226*							Page 6
Item ID: Revision ID:	D350-748-20	01		Accept	*N900	040	100)*	Setup	Start	*N:	S1*
	Crosstube Inst	tallation, High Aft								Stop	*N!	S2*
Start Date: Required Date:	7/10/12 8/31/12	Start Qty: 1.00 Req'd Qty: 1.00	*1* *1*		Cust Item I Customer:	D:						
Reference:							- -		ъ	644		
Approvals:		nn:		_		ate: ate:			Run	Start Stop	*N *N	R1* R2*
Sequence ID/ Work Center II	D	Operation Description		Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accep Qty	t Rej Qty		Reject Number	Insp. Stamp
*210 *210* QC Quality Control		QC5- Inspect part compl	eteness to step on W/O	0.00 AS)	nliolot			**************************************				
220 *20 *20 *20 *Apackaging Packaging		Pick Kit Memo		0.00				(.×			sal 10	2-10-5
230		QC4- 100% Inspect kits	for completeness	0.00				t			J.	(A)
230 QC Quality Control		Memo		0.00								os alk

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W/O:			WC	ORK ORDER CHANGES	3			
DATE	STEP	PRO	CEDURE CHA	NGE	Ву	Date Q	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cate	gory:	NCR: Yes	No DQA: _	Date: _	
		esolution:						
NCR:	-	. \	WORK ORDI	ER NON-CONFORMAN	CE (NCR)		
DATE	STEP	Description of NC		Corrective Action Section		Verification	on Approval	Approval
	O.L.	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C		QC Inspector
	<u> </u>							
	:							r
	1							

Work Order ID:

87226

Parent Item:

D350-748-201

Parent Item Name:

Crosstube Installation, High Aft

Start Date: 7/10/12

Required Date: 8/31/12

Start Qty: 1.00

Required Qty: 1.00

Comments:

IPP Rev: A New Issue 06-07-05 JLM

IPP Rev: B Update qty of MS21042L5 06-09-12 KJ

IPP Rev C Combined manufacturing 08.04.02 EC verified by: DD

IPP Rev:D 08-06-24 rcvD as per dwg DD verified by:EC

IPP Rev: E 08.12.11 Step17 was step 21 KJ Verified by:EC IPP Rev:F 10.08.04 added QSI010

	4.3 DD verf:EC	IPP F	REV:G A	DD UNDER	BEND COMME	ENT 12-05-28	JLM						
Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
ALS4-1032-225		Purchased	No			200	Each	2,664.0000	1	1		20	
Insert									<u> </u>		N (19	<u> 20.01%</u>	
				Location		Loc Qty	<u>Lo</u>	c Code					
				FP-B		2221							
				12	2290	2221							
				ST281		420						, ,	
				10	8696	146							
					0768	62							
					8386	55							
					8966	68							
					1269	89							
				ST282		23							
					0410	10							
			.	12	0451	13	P1	411.0000				~	مسم
AN4-41A		Purchased	No			220	Each	411.0000	8	$\cap 18$	L-10-	-5	de
Bolt										10			
				Location		Loc Qty	Lo	c Code					
	•			360		181							
				12	1185	181							
	•			ST360		230							
				11	5108	3							
					5705	1							
					8838	8			—				
					9328	68				<u> </u>			
				12	0423	150							

Dart Aerospace Ltd

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W/O:			WO	RK ORDER CHANC	GES					•
DATE	STEP	PR	OCEDURE CHAN	IGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		•					,			
				/						
Part No		PAR #:	Fault Categ	ory:	NCR:	Yes 1	lo DQ	A:	_ Date: _	
	R	esolution:	Disposition	:`	QA: I	WC Clo	sed:	· · · - · ·	Date: _	
NCR:			WORK ORDE	R NON-CONFORM	ANCE	(NCR)				
DATE	OTED	Description of NC		Corrective Action Sec	tion B		Verific	cation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		Sign & Date		on C	Chief Eng	QC Inspector
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2.9										
 -	Work Order ID: Parent Item:	87226 D350-748-201						Start D	Pate: 7/10/12	Required Date: 8/31/12
	Parent Item Name:	Crosstube Installation	on, High Aft					Start	Qty: 1.00	Required Qty: 1.00
	AN4-6A		Purchased	No		220	Each	1,363.0000	16	16) 288 SP 66/10
	****			<u>Lo</u>	cation	Loc Qty		Loc Code		
				ST.	356	1363				<u> </u>
					119017	363				<u></u>
					121243	500				_
	1				122151	500				_
5	AN5-32A Bolt		Purchased	No		220	Each	277.0000	4	D4 S
	•			Loc	cation	Loc Qty		Loc Code	·	
				ST	339	177				
	м.				119862	2				
					120423	75				
	÷				122151	100				<u> </u>
				ST	340	100				
					121541	100			4)	- 20
	AN960JD10 Washer	NAS1149D0363J	Purchased	No B#1	22378	200	Each	0.0000	1	1 105 12 10 05
5	AN960JD416 Washer	NAS1149D0463J	Purchased	No		220	Each	29.0000	32	132452 SP 3
	•			<u>Lo</u>	cation	Loc Oty		Loc Code		•
				ST	351	29				
					116289	8				
/					119097	21				
/ 5	AN960JD516 Washer	NAS1149D0563J	Purchased	No		220	Each	12.0000	8 	n°1212555P
				Lo	cation	Loc Qty		Loc Code		12-10-5
				· ·	338	12				(0. 10.2)
					2612	12				<u>—</u>
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Dart Aerospace Ltd

W/O:			WO	RK ORDER CHANGI	ES				• •
DATE	STEP	PRO	CEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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							<u> </u>		
Part No		PAR #:							
	R	esolution:						Date: _	
NCR:		\	WORK ORD	ER NON-CONFORMA	NCE (NC	R)			
DATE	STEP	Description of NC		Corrective Action Section		Verific	cation	Approval	Approval
DAIL	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign Date	& Sect	ion C	Chief Eng	QC Inspector
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Picklist Print
July-11-12 10:35:32 AM

Work Order ID: Parent Item:	87226 D350-748-201					Start	Date: 7/10/12	Reau	ired Date: 8/31/12
Parent Item Name:	Crosstube Installation, High Aft						Qty: 1.00	-	uired Qty: 1.00
D2856-400 Abrasion Strip	Manufactured	No		200	f	144.8425	1.181	1.2431579	600 12 K
			Location	Loc Oty		Loc Code			89
	2		ST403	135.398					
	B#89352		81875	135.398				.=	
	(D) 81230		ST409	9.4445					
			63735	0.6696					
			68076	0.3149					
			71164	8.46					
3500-1 addle	Manufactured	No		220	Each	51.0000	4	B861	1632x8 462x
			Location	Loc Oty		Loc Code		RCC2	1/02 2
			ST423	40				082	4W JA
			85421	40					
			ST425	11					
			76940	11					
3501-1	Manufactured	No		220	Each	232.0000	16	<u> </u>	
ushing							·	<u> </u>	
			Location	Loc Qty		Loc Code			
			ST051	232					
			67757	4					
			73391	6					
			74866	206				lox	<i></i>
			85414	16					DAS
D3502-1 Support	Manufactured	No		200	Each	47.0000	2	2	045 05 25 17/10
			Location	Loc Qty		Loc Code			
			LG050	37					
			77041	37					
			ST051	10					
			73419	9			سيب سني بنسب		
			74873	1					

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		WORK ORDER	CHANGES		· · · · · · · · · · · · · · · · · · ·		•
STEP	PR	OCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
			1				
				·			
			·				
•	PAR #:	Fault Category:	NCR: Ye	es No DQ	A:	_ Date: _	
Resoluti	ion:	Disposition:	QA: N/C	Closed:		Date: _	
	STEP	STEP PRO	STEP PROCEDURE CHANGE PAR #: Fault Category:	STEP PROCEDURE CHANGE By	WORK ORDER CHANGES STEP PROCEDURE CHANGE By Date	WORK ORDER CHANGES STEP PROCEDURE CHANGE By Date Qty	WORK ORDER CHANGES STEP PROCEDURE CHANGE By Date Qty Approval Chief Eng / Prod Mgr

NCR:			WORK ORDER NON-CONFORMANCE (NCR)											
		Description of NC		Corrective Action Section B		Verification	Ammrayal							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector						
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Picklist Print
July-11-12 10:35:32 AM

Work Order ID: Parent Item:	87226 D350-748-201						Start I	Date: 7/10/12		Required Date: 8/31/12
Parent Item Name:	Crosstube Installar	tion, High Aft					Start	Qty: 1.00		Required Qty: 1.00
MS21920-20 Clamp (per MIL-DTL-87	783C)	Purchased	. No		200	Each	127.0000	2	2	05 labor
			Loc	e <u>tion</u>	Loc Qty		Loc Code			-
	\$ and	&	LG0	50	127					
•		89		116799	8					
	1000			120676	8					
				121067	2					
				121274	34					
				122254	75					$\sim A \sim$
MS27039-1-10 Screw		Purchased	No		200	Each	141.0000	1	1	DAS 05 12:10:0
			Loc	ation	Loc Qty		Loc Code			
			GA		100					
	13# 122441			120449	100			-		
	100111		ST2	91	5					
				120120	5					
			ST3	08	36					Ŧ
				122027	36					

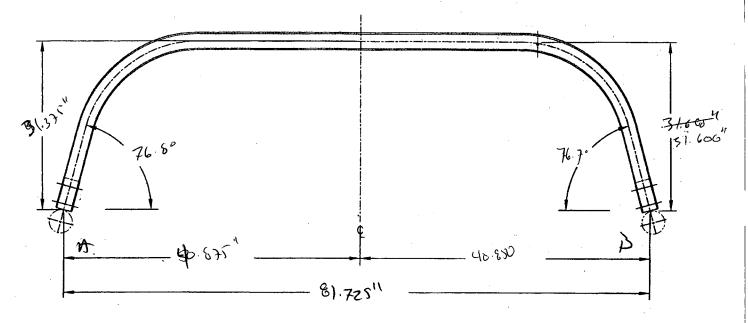
Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES															
DATE	STEP	PROC	Ву	D	ate	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector									
•																	
<u> </u>	-			·													
Part No		PAR #:	Fault Cate	gory:	NCR: Ye	es No	DQA:		Date: _								
		esolution:															
NCR:		W	ORK ORDI	ER NON-CONFORMA	NCE (N	CR)											
DATE	0750	Description of NC		Corrective Action Section			🕅 Section C		Approval	Approval							
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng		n & ate			Chief Eng	QC inspector							
								-									
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DAME DAME	5 Ke (2)	alternative for Aller
DART AEROSPACE LTD	Work Order:	87226
Description: Crosstube High Aft (AS350/355)	Part Number:	D350-748-201
		.v. 1907.m. 1
Inspection Dwg: D350-748-241 Rev: FC/W		Page 1 of 1

After Stros Peife.

Required Dimension	Min	Max
Height	31.22	31.48
1/2 Span	40.77	41.03
Angle	75	77
Total Span	81.54	82.06
Bending Passes	7	
Crushing	••	6%
Twist		0.25



	Side A	Side B
Bending Passes		
Crushing		
	Comments	-1
twist = 6,464	Thu15+	= 0.261 (XIVa)
Cut	0,100 FRUM: HI	64 SIDE
Acc:	entable 4/2/2/	7)

QC15 Inspection	(6PS	
Date	10 Mg	110

Rev	Date	Change	Revised by	Approved		
A 07.02.06		New Issue	KJ/JM			
В	10.08.23	Dwg Rev updated	KJ \n			
С	12.04.16	Added bending, crushing & twist dimensions	KJ S	(1)		

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				DQA:	Date:
CD.	Voc /	NO WORK ORDER NON-	CONFORMANCE / LIPDATE		

								- -			QA Closed:	Date	e:		
Work Orde	or∙			_		DISPOSITION				AGAINST DE	AGAINST DEPARTMENT/PROCESS				
Part i	•					Rework Scrap	Scrap Machining Small Fal			Crosstube Small Fab	4	Water Jet d. Eng. Coor.	Engineering Quality		
NCR No.						Use-as-is Work Order Update		Thermoforming Finishing Large Fab Composite			Rec/Stoi	re/Packaging Supplier	Other		
Root					Descri	ption of work order update	In	itial	Act	tion	Sign &				
Cause		Date	Step	Qty	(or Non-conformance	Chie	ef Eng	Desci	ription	Date	Verification	QC Inspector		
Doc/Data															
Equip/Tooling	Ш												•		
Operator			ł												
Material							۱.								
Setup															
Other			ĺ												
Process			ļ												
Supplier															
Training									•						
Unapproved							<u> </u>					<u></u>			
							AULT	CATE	GORY		·····				
Landi	ng (Sear			_	General				_	_	-			
	-	Bending				Bend	\vdash	Grain		L	Ovalized		Pressure/Forced		
	\vdash	Centre No	ot Concer	ntric to	o/s	BOM/Route		Hardwa		L	Over/Under		Temperature/Cure		
	\vdash	Cracks			<u> </u>	Broken/Damaged	-		on Incomplete	_	Part Incorre	}-	Weld		
		Crushed/0	Crimped.		_	Burrs	-		ions Incomplete/	Unclear	Part Lost/M	issing	Wrong Stock Pulled		
	Ь—	Cuffs				Contamination	-		enance		Part Moved				
	_	Heat Trea				Countersink	\vdash	Mislabe		<u> </u>	Positioned \	· ·			
	-	Inspection	•	Tube		Cut Too Short		Misread	j		Power Loss/	'Surge	Other		
	Ripples in Bend					Drill Holes	\mathbf{H}	Offset							
	Torque Waves in Extrusion					Drawing	-		Calibration						
		Turning S	equence			Finish	Ц°	Out of S	Sequence						
	Wave/Twist in Tube					Folio		Outside Dimensions							

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

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8

Item	Qty -241	Part Number	Description
1	Х	D350-748-241	CROSSTUBE ASSEMBLY (AS 350/355 HI AFT)
2	1	D6015-125	CROSSTUBE (OR D6018-125)
3	2	D3502-1	SUPPORT
4	2	D2856-400-710	ABRASION STRIP
5	1	AELS-1032-225	INSERT
6	1	NAS1149D0363J	WASHER (OR AN960JD10)
7	2	MS21920-20	CLAMP (PER DART SPEC. M-MS21920-20)
8	1	MS27039-1-10	SCREW

GENERAL NOTES:

F

1) MATERIAL: MANUFACTURED FROM D6015-125 OR D6018-125

FINISHED LENGTH = 122.700±0.06

2) FINISH: MAGNETIC PARTICLE INSPECT PER DART QSI 038 4.2 CADMIUM PLATE PER AMS-QQ-P-416B, CLASS 1, TYPE II PRIME INSIDE AND CUTSIDE PER DART QSI 005 4.2 PAINT OUTSIDE PER DART QSI 005 4.2

- 3) TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED.
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED.
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: DART PART NUMBER *D350-748-241* AND BATCH NUMBER ON INSIDE OF CUFF PER DART QSI 044 6.4 (VIBRATING STYLUS)
- 7) WEIGHT: 29.85 lbs
- PART IS SYMMETRIC ABOUT CENTERLINE, EXCEPT FOR Ø0.297 HOLE.
- P) RUN CUTTER OFF PART WHERE INDICATED. BLEND OUT ALL EDGES FROM MACHINING LONGITUDINALY, TRANSITION SHOULD BE SMOOTH. NOTE: ALL HOLES ARE DRILLED AFTER BENDING.
- 10) BEND PROGRESSIVELY WITH A MINIMUM OF 7 PASSES. MAXIMUM TUBE FLATTENING DUE TO BENDING IS 6% BASED ON O.D.



- 11) HEAT TREAT TO MIN. 180 KSI PER MIL-T-6736 OR AMS 2759-1C AFTER TURNING. ACCEPT ABLE TO VERIFY TENSILE STRENGTH BY HARDNESS TEST PER ASTM E18 TO 40-45 HRC.
- 12) INSTALL D2856-400-710 ABRASION STRIPS WITH A GAP ON BOTTOM SIDE OF CROSSTUBE, CENTERED OPPOSITE D3502-1 SUPPORT, PER QSI 035.
- 13) EXTREME CARE MUST BE TAKEN TO PROTECT THE OUTSIDE SURFACE OF THE TUBE. THE OUTSIDE SURFACE MUST BE SMOOTH AND FREE FROM SURFACE DEFECTS SUCH AS SCRATCHES, NICKS, OR DENTS. DEFECTS SUP TO 0.005" MAY BE BLENDED OUT LONGITUDINALLY. CIRCUMFERENTAL GRIND MARKS ARE UNACCEPTABLE. WHEN DRILLING HOLES EXTREME CARE MUST BE TAKEN AND CAREFUL DEBURRING PERFORMED TO ENSURE A CLEAN HOLE WITH NO
- CRACKING/CHIPPING/GROOVES.

 14) TORQUE CLAMPS 60 TO 80 IN-LB. ENSURE AT LEAST 1.5 THREADS SHOWING IN SAFETY AND THAT NUT HAS NOT BOTTOMED-OUT AFTER TORQUING.



15) MAX TWIST AFTER BENDING: WITH XTUBE LAYED FLAT ON SURFACE, THE DIFFERENCE BETWEEN CUFF HEIGHTS FROM THE SURFACE MAY BE NO LARGER THAN 0.25 (ZN C1-3).





F	TWIST	LIMIT (A8-1, C	ION (B8-1) PER PAR 09-040, ADD 01-3), ADD D6015-125 OPTION NOW MACHINED (D1-4)	СР	10.11.23				
E	STANC	ARDS; RELO	OTES; UPDATE TO CURRENT CATED FLAG #6 PER PAR 08-046 ERANCES (ZN C6-3, D2-3)	RF	09.09.30				
D	MAG. F	PARTICLE AND	CAD PLATE AS MFD.	CP	06.10.31				
С	ADD C	AD PLATING		CP	06.08.14				
В	ADD D	6018-125 & PF	RIME AND PAINT	CP	06.06.30				
Α	NEW IS	SSUE	CP	06.03.31					
REV.		. [DESCRIPTION	BY	DATE				
DESIGN		q)	DART AEROSPACE LTD						
DRAWN		q?	HAWKESBURY, ONTAR	O, CAN	ADA				
CHECKE	D	4	DRAWING NO.		REV. F				
MFG. AF	PR.	Es	D350-748-241	5	SHEET 1 OF 4				
APPRO\	/ED	-14,	TITLE SCA						
DE APP	R.	4	CROSSTUBE (AS 350/355 HI AFT) NTS						
DATE	10.1	1.23	COPYRIGHT 6 2006 BY DART AEROSPACE LTD HIS DOCUMENT OF PRIVATE AND COMPERENTAL AND IS SUPPLED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PLANCASE OR COPIED DIR COMMUNICATION TO ANY FOR PERSON WITHOUT WHITETER PRIVACES FOR COMPANICATION FOR SUPPLEMENT AND WITH ARROSPORTS.						

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												DQA:	Date	:
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Root					Descr	iption of work order update		nitial	Ac	ction		Sign &	-	
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		Cuffs	umpeu.		-	Contamination	-	Instructions Incomplete/Unclear Maintenance				Part Moved	- B	

Mislabeled

Out of Calibration

Out of Sequence

Outside Dimensions

Misread

Offset

Positioned Wrong

Power Loss/Surge

Other

Turning Sequence

Wave/Twist in Tube

Ripples in Bend

Heat Treat

Inspection Strip in Tube

Torque Waves in Extrusion

Countersink

Cut Too Short

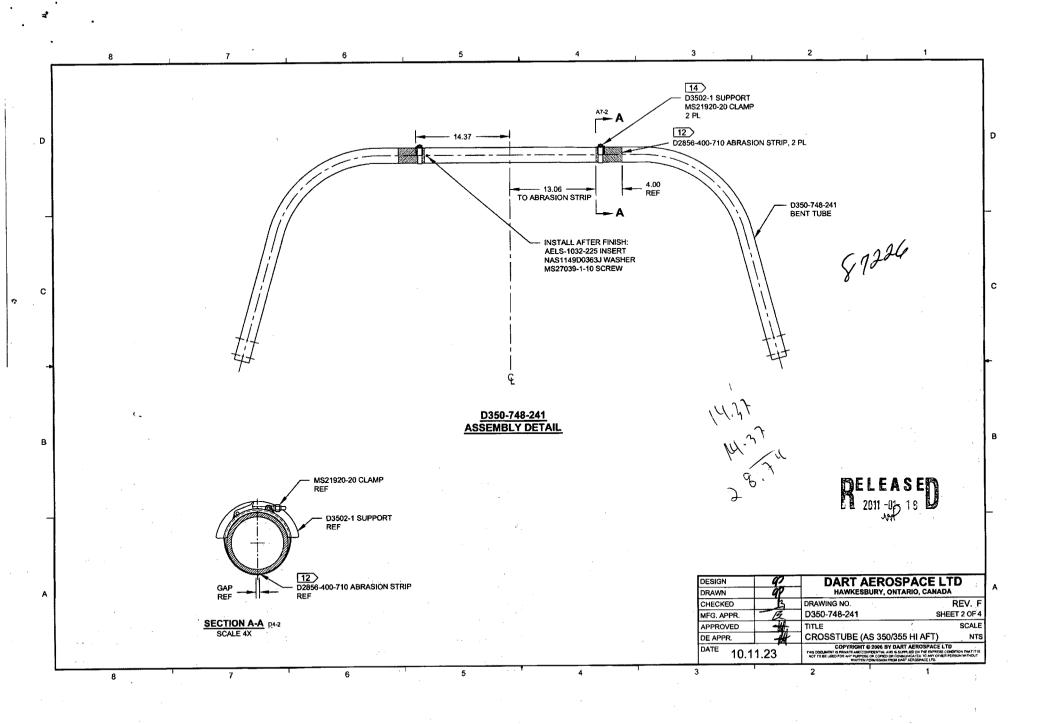
Drill Holes

Drawing

Finish

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G



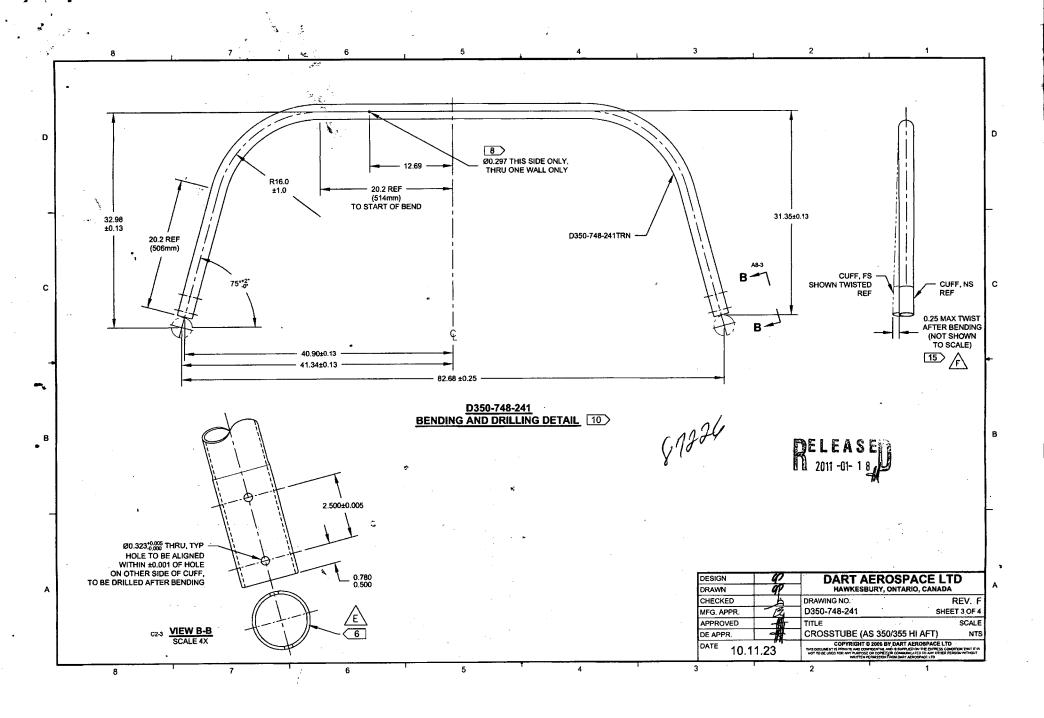
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Work Orde	er:						DISPOSITION		AGAINST DEPARTMENT/PROCESS						
Part No.							Rework Scrap Use-as-is Work Order Update		Therm	Skid-tube Machining noforming Large Fab	Crosstube Small Fab Finishing Composite	•	Water Jet d. Eng. Coor. e/Packaging Supplier	Engineering Quality Other	
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		Bending Centre Not Concentric to O/S Cracks Crushed/Crimped Cuffs Heat Treat Inspection Strip in Tube Ripples in Bend Torque Waves in Extrusion					Bend BOM/Route Broken/Damaged Burrs Contamination Countersink Cut Too Short Drill Holes Drawing		Grain Hardware Inspection Incomplete Instructions Incomplete/Unclear Maintenance Mislabeled Misread Offset			Ovalized Pressure/Forced Temperature/Cure Part Incorrect Weld Part Lost/Missing Wrong Stock Pulled Part Moved Positioned Wrong Power Loss/Surge Other			
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Outside Dimensions

Wave/Twist in Tube

Folio

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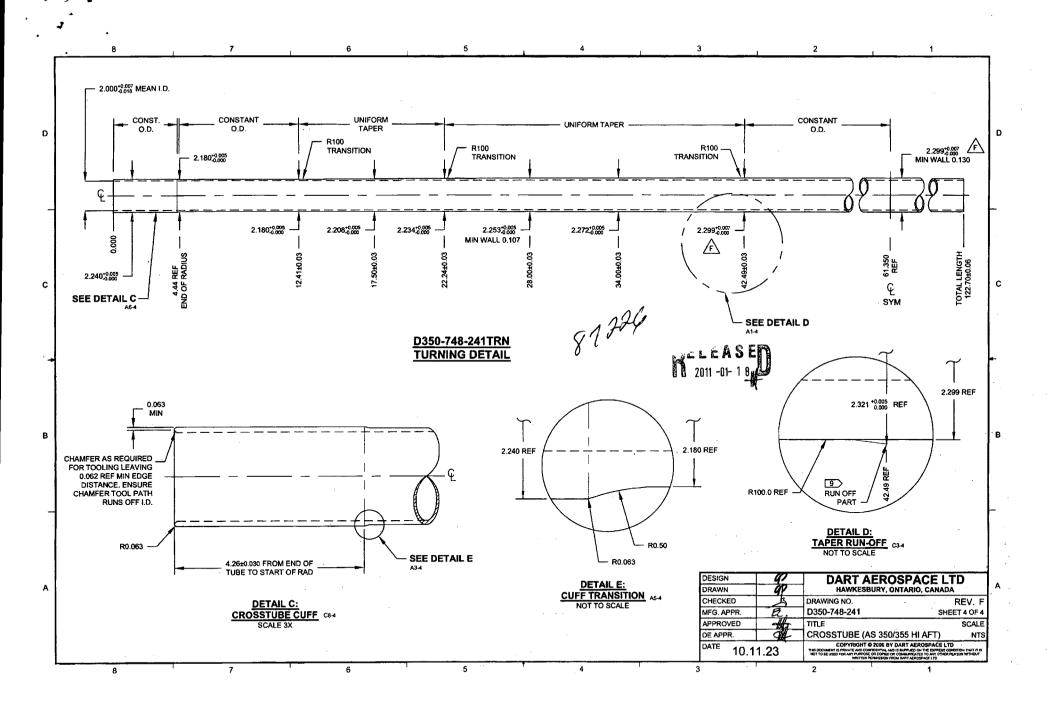
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		Inspection	Strip in	Tube			Cut Too Short		Misread	1 .		Power Loss/	Surge	Other
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	Turning Sequence				Finish	Г	Out of S	equence						

Outside Dimensions

Wave/Twist in Tube

Folio

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G



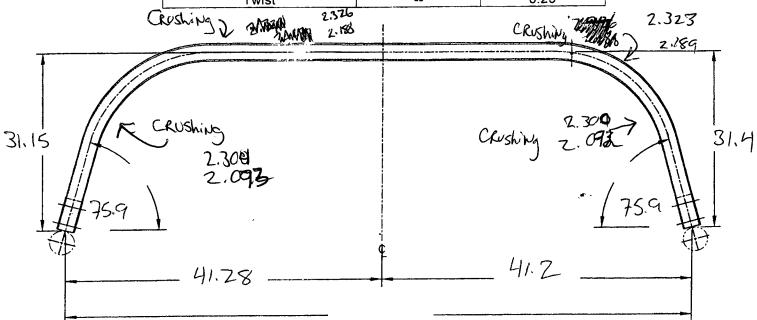
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Work Order: DISPOSITION				DISPOSITION			AGAINST DEPARTMENT/PROCESS							
			Rework			Skid-tube Crosstube	¬ .		Water Jet	Engineering				
Part No.			١	Scrap			Machining Small Fab	\dashv	Proc	d. Eng. Coor.	Quality			
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NCR N	١o.						Work Order Update			Large Fab Composite		•	Supplier	
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*		Cuffs					Contamination		Mainte	enance	Part M	Part Moved		
9		Heat Treat	t		· [Countersink		Mislabe	eled	Positio	ned W	/rong	
		Inspection	Strip in	Tube			Cut Too Short		Misread	j [Power	Loss/S	Surge	Other
j		Ripples in	Bend				Drill Holes		Offset					
* *		Torque W	aves in E	xtrusio	n [Drawing		Out of 0	Calibration				
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		Wave/Twi	st in Tub	e			Folio		Outside	Dimensións				

H:/FORMS/Quality Assurance\approved QA/NCRWO Rev G

Before De-Strew Work Order:

DART AEROSPACE LTD	Work Order:	•
Description: Crosstube High Aft (AS350/355)	Part Number:	D350-748-201
Inspection Dwg: D350-748-241 Rev: F		Page 1 of 1

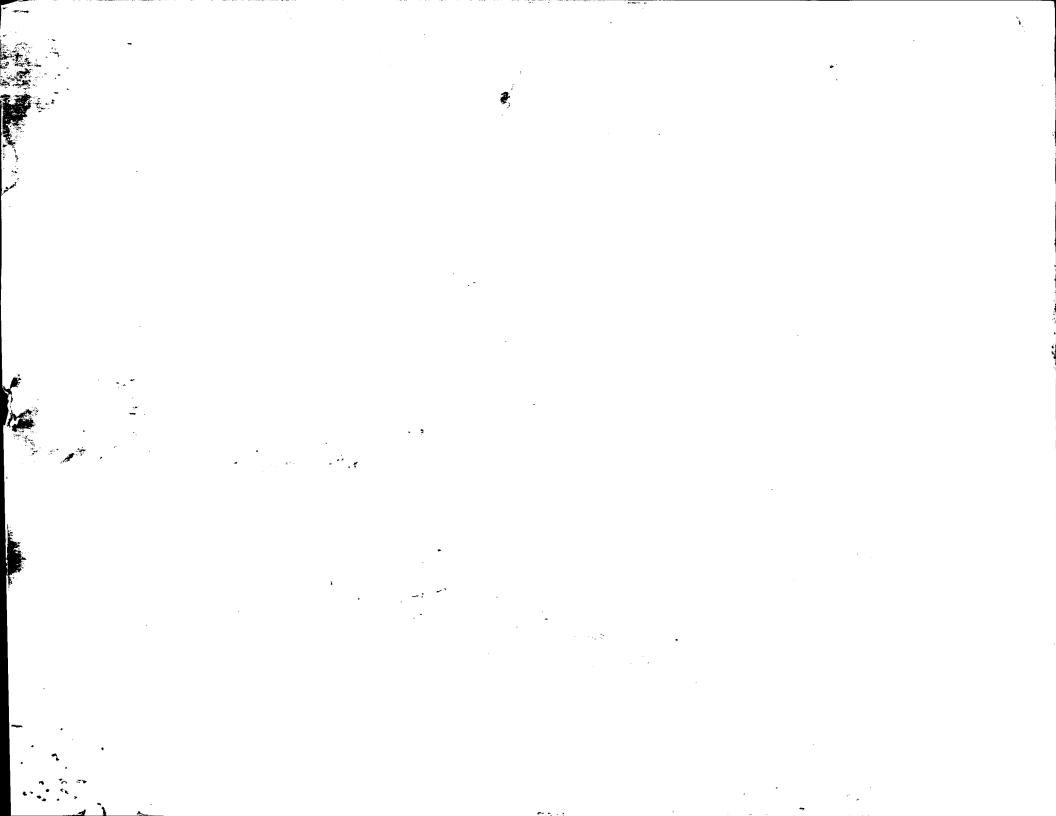
Required Dimension	Min	Max
Height	31.22	31.48
1/2 Span	40.77	41.03
Angle	75	77
Total Span	81.54	82.06
Bending Passes	7	
Crushing		6%
Twist		0.25



-

QC15 Inspection	
Date	

Rev	Date	Change	Revised by	Approved
	07.02.06	New Issue	KJ/JM	
В	10.08.23	Dwg Rev updated	KJ	
C	12.04.16	Added bending, crushing & twist dimensions	KJ ,	1
D	12.07.31	Dwg Rev updated	KJ O	Chall





560, boul. Arthur-Sauvé, St-Eustache (Québec) J/R 5A8 Tél. 450 473-1884 Télécopieur/Fax administration 450 491-5498 Télécopieur/Fax production 450 491-6454

Certificat de Conformid

BON DE TRAVAIL	
order	1
178850	(\$. 6)

<u>UL ENTITOUSOMS</u> 212 DART AERCEPACE 1211 4 BERDEEN HAVAKESBURY

ON KBA 1K7

<u>UVRÉ À / shipped to:</u> DART AEROSPACE 1270 ABERDESN HAWKESBURY

ON KSA 1K7

	PO/DS	DESCRIPTION DES PIÈCES parts description	:
<u></u>	190	D350-748-101	
		(1) REF.: 87338	
		CROSTUSE :	
	:	(1) D355-748-131	
		CROSSTUBE	
		REF: 87332	
		; (1) D350-748-101	
		CROSS TUBE	
1	~~~	REF: 87337	:
:		(1) D250-746-201 ZROSSTUBE	
·		REF: 87228	
:	1	(1) D350-748-201 CROSSTUBE	•
		: REF: 87223 :	
		(4) D350-748-201 CROSSTUBE REF: S7225	
		CONTENANT: 1 NIL	

COMMENTAIRES / comments

CERTIFIÉ par / Certified by:

(METCO

DATE: 2012-09-04

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560, boul. Arthur-Sauvé, St-Eustache (Québec) J7R 5A8 Tél. 450 473-1884 Télécopieur/Ea×administration 450 491-5498 Télécopieur/Fax production 450 491-6454

Certificat de Conformité
Certificate of Comphance

BON DE TRAVAIL CHARGEMENT | Order | Day| | 178860 4

ON KSA (KT

<u>UVRÉ À / shipped to:</u> DART AEROSPACE 1270 ABERDEEN HAWKESBURY

ON KSA 1K7

COMMANDE DU CLIENT	BONDE UVRAISON DU CLIENT CUSTOTTET STIPPET NO.	MATER/EL meterial	CODE DE TRAITEMENT matî heat code	NUMÉRO DE LOT latinumber	
FOC:7788 1		Steel	a de la companya de l		=,

<u>SPÉCIFICATIONS DU PROCÉDÉ</u>

processing specifications

PREEDEL

:47 4482756 REVE

RELIGIO DE CARROL E PÉCIFICATIONS / specified TESTS EXÉCUTÉS / performed RÉSULTATS DE TESTS / result



CERTIFICATE OF CONFORMANCE

CADORATH PLATING CO. LTD. 2150 LOGAN AVENUE WINNIPEG, MANITOBA R2J-0J1

DATE:

Sep-26-2012

CONSIGNED TO: Dart Aerospace Ltd.

1270 Aberdeen St.

Hawksbury, ON K6A 1K7

W/O #:

117653

INVOICE #:

62539

CONTRACT OR

PURCHASE ORDER #

PO17909

DESCRIPTION:

CROSSTUBE

QTY

1

P/N # D350-748-201

S/N # 87226

STRIP AND CADMIUM PLATE IAW AMS-QQ-P-416C TYPE 2 YELLOW CLASS 1. MPI IAW ASTM-E-1444. BAKE HEAT CHART # 12-974 AND # 12-993.

CERTIFICATE: I certify that the items indicated here on have been inspected and tested and conform to all specifications and requirements detailed on the contract or purchase order.

Approved Inspector:





Dart Aerospace Ltd. 1270 Aberdeen Street Hawkesbury, ON K6A 1K7

Tel: 613 632 9577 Fax: 613 632 1053

PURCHASE ORDER

Purchase Order ID PO18036

Purchase Order Date 10/01/12 PO Print Date 10/03/12

Page Number 1 of 1

Order From:

VC-HEL003

HELITRADES INC PO BOX 162, 18 TERRY FOX DRIVE VANKLEEK HILL, ONTARIO KOB 1R0 **CANADA**

Contact Name

Vendor Phone

613-678-3027

Vendor Fax

613-678-2776

Vendor Account Nbr

Buyer

Requisition Nbr

Tax Resale Nbr

Terms Currency

FOB

Chantal Lavoie

10127-2607

Net 30 CAD

Destination-Collect

Ship To:

DART AEROSPACE LTD

1270 ABERDEEN HAWKESBURY, ON K6A 1K7 **CANADA**

Line Nbr Reference Revision ID Vendor Part Number

Req Date/ Taxable Unit of Measure

Reg Qty/

Ship Method

Unit Price

Extended **Price**

87226

D350-748-201 **CROSSTUBE**

Description/

Mfg ID

10/02/12

2.00

\$85.0000

\$170.00

Yes

Special Inst:

TOUCH UP CAD PLATE

PO Total:

\$170.00

CERTIFICATE OF CONFORMITY REQ'D UPON DELIVERY



No substitution or deviation without consent.

Certificate of Conformity or Material Certification required - YES

Change Nbr:

2

Change Date: 10/03/12

HELITRADES INC. P.O. Box 162, 18 Terry Fox Drive Vankleek Hill, Ontario KOB 1RO, Canada TEL (613) 678-3027 FAX(613) 678-2776 Email: helitrad@hawk.igs.net GST# R102320439		STRIP REPORT: H18952 STRIP REPORT DATE: 03-Oct-2012 CUSTOMER P.O. 18036 CUSTOMER I.D.: DART AEROSPACE DATE ITEM RECEIVED: 02-Oct-2012
SOLD TO:	DART AEROSPACE 1270 ABERDEEN STREET	SHIP TO:
	HAWKESBURY LINDA/MELANIE	K6A 1K7
Part Number: Description: Component ID:	D350-748-201 CROSSTUBE 206-13	Serial Number: UNKNOWN Removed From: UNKNOWN
GENERAL COL GOOD UNIT RECEIVE WARRANTY A REPORTED FA	CCEPTED:	REPAIR_X TEST WARRANTY INSP YES NO N/A_X_ AD PLATE.
REMARKS:	ED FAILURE CONFIRMED: EPAIRED AREAS BRUSH CA	
DATE October	03, 2012	INSPECTORGERALD TOM

1. Appro	ving Civil Aviation Authority/Country	[2.			 		3 For	n tracking No.	
AUTHORIZED RELI								HTV-3216	
				1 ONE				Page 1 of 1	
4. Appro	ved organization name and address		· · · · · · · · · · · · · · · · · · ·				5. Woi	rk order/contract/invoice	
MEN MED A DESCRIPTION									
	HELITRADES INC. 18 Terry Fox Drive, Vankleek Hill, Ontario, K0B 1R0, Canada H-18952								
6. Item	. Item 7. Description 8. Part			No.		10. Serial/Batch No.		11. Status/work	
1	1 CROSS TUBE		D350-748-201		1	N.S.N.		REPAIRED	
12. Rema					<u>i</u>	<u> </u>			
BRUSH	CADMIUM PLATING APPLIED T	O AFFECTED ARI	EA.	•					
DOCUM	MENTATION FOR ALL WORK DEL	ECDICED IO ATTA	W 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4 D 4						
DOCUMENTATION FOR ALL WORK PERFORMED IS AVAILABLE ON FILE UNDER HELITRADES W/O SPECIFIED IN BLOCK # 5. 13a. Certifies that the items identified above were manufactured in conformity to: 14a.									
	CAR 571.10 Maintenance Release.								
ш	Approved design data and are in condition for safe operation.								
	Other regulations specified in block 12.								
	Non approved design data-specified in block 12. Certifies that, except where otherwise specified in block 12, the work identified in								
block 11 and described in block 12 was performed in accord Canadian Aviation Regulations.						rformed in accordance with the			
13b. Sign	ature	13c. Approved Orga	nization Number	14b. Signature	an Aviatio	n Regulations.		14c. Approved Organization Number	
		Jose Approved orga	mization rumber	140. Signature	00		WE'S	14c. Approved Organization Number	
				1 Hot	ny	July 31	12/	AMO 3/86	
13d. Name 13e. Date (dd/r		13e. Date (dd/mm/y)	yyy) 14d. Name					14e. Date (dd/mm/yyyy)	
					GERALD	TOM	ļ	2 Oct. 2012	
		<u> </u>							
	tificate does not constitute authority to								
	s working in accordance with the natio e certifications from the country specit		country other than t	that specified in	block 1 n	nust ensure th	at thei	r regulations	
	nts in blocks 13a or 14a do not constit		fication. In all cases	s, the technical	record for	the aircraft mi	ist cor	ntain an installation	
certificati	on issued in accordance with the ann	licable national regu	lations before the	ircraft may ha	flown ".	are anciall fill	431 WI	itani an installation	

(Previously form 24-0078)



LIQUID PENETRANT TEST REPORT

ACUKEN							
		1 0				PAGE	OF
CLIENT	DAT	AGIOS/ACE	<u>:-</u>	DATE	SEP	70-12 TIME	AM 🗹 PM 🗆
ATTENTION		4ND9.		ACUREN JOB NO			356
ADDRESS	1270	ABELDEEN	S <i>T</i>	PO/WO No.			
	SARUK	ESBURY ON	· · · · · · · · · · · · · · · · · · ·	Work Location			
				ACCEPTANCE ST	DASTU 14	117/05/-038 REV./	DATE 2005
PROJECT		F.P. I	_ س	CROSS ?	7 u BES	/	
ITEM(S) EXAMINED			6 un	178			
							<u> </u>
JOB DESCRIPT		PROCEDURE NO. L	T-2002 REV./DAT	E 2008	TECHNIQUE NO	D. LT- BELLY REV./	DATE 2008 -
PART-NO.		E ESULT		MATERIAL		L 1/130THICKNESS	
		FlourESCE				Fr8 FEETIN	law u
CONCE!	> out	ON THE 1	100 % of	Sunf	ACE.		
TEST DETAILS							
METHOD		LUORESCENT SAFLUZ	☐ VISIBLE	WATER WASH	164-6-	3 SOLVENT REMOVABLE 3 OUTPUT > 1000 μ W/Ch	POST EMULSIFIED
FAMILY BRAND PENETRANT	266		ME 45 16 MIN				UTPUT>100 fc @ SURFAC
PENETRANT REMO	OVER H2C	MINIMUM DRY TIME	>10 Mir	N. OTHER	15, NO		
DEVELOPER TYPE	S/OSO	MINIMUM DWELL TIN AQUEOUS AQUEOUS	ME 10 MIN ☐ DRY	N. LIGHT METER S/N	<u> </u>	CAL	DUE DATE NOU (à
TEST SURFACE		AGDEOUS & AGDEOUS	G DK1				000
SURFACE CONDITI	ION 🗆 As G		WELDED	MACHINED	☐ SHOT BL		CLEAN BARE METAL
SURFACE TEMPER			°С/ 20°F то 10°С/5	50°F	⊿ 10°C/50°	°F то 52°C/125°F	> 52°C/125°F
RESULTS-		RIC IMPERIAL)	ACCEPT REJE	X X	\rightarrow	<u> </u>	
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CLIENT REPRESE	ENTATIVE A	ndy Sheldon		Shellor		DTR# €~	120 588
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